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Associated Students of the Montana School of Mines

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WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES

By D. C. McAuliffe
Dean of College

Following the custom of past years, Montana School of Mines is participating in the annual "Who's Who Among Students in American Universities and Colleges." This is not the "Who's Who" of A. N. Marquis and Company, nor the publication known as "Who's Who in America." The national office for selecting candidates for "Who's Who" is located in Tuscaloosa, Alabama, and each year invites American colleges and universities to select candidates for "Who's Who" from among their students. The method of selection is left to the participating schools with the suggestion that the following qualities be considered in the nomination of each student:

Excellence and sincerity in scholarship.

Leadership and participation in extracurricular and academic activities.

Citizenship and service to the school.



DEAN D. C. McAULIFFE

Promise of future usefulness to business and society.
Candidates are selected from seniors who are eligible for graduation in June. Each college is assigned a quota and the size of the quota depends upon the number of students enrolled in the institution. Under no circumstances may the number exceed the quota by more than two. This year, the quota for Montana School of Mines was set at five; two additional nominees may be submitted to eliminate ties.

For several years, the Dean of the College at Montana School of Mines has submitted seven names to the national office for approval. Following approval, the names are returned to the school for a final check on spelling, addresses, etc. After the final check, the names are returned to the national office so that certificates can be prepared for presentation at a later date. Names are not to be published until final confirmation has been received from the national office. Seven nominees have already been selected from the school and will be published at a later date.

The method of selection of seniors at Montana School of Mines for this year has been completed in the Dean's office, and under the same method used in past years. Heads of the degree-granting departments, the registrar, and the student body president are asked to submit to the Dean names of seniors who they believe are qualified for nomination. Those receiving the highest number of votes are nominated. Votes are strictly confidential and when results are tabulated, they are submitted to the national headquarters for approval. Nominations for this year have been tabulated and submitted to the headquarters for final confirmation and should be available for publication in the near future.

Walton Conducts Seminar on Chelation

Dr. Harold Walton, professor of chemistry at the University of Colorado, conducted a seminar on Chelation in the Metallurgy Building on Friday afternoon, November 22. Many students and faculty members attended the meeting, including faculty members from Montana State College and Montana State University. The general public was also invited.

Chelation deals with complex inorganic molecules, their structure, composition, and method of preparation.

On Friday night, Dr. Walton spoke to the Montana Section of the American Chemical Society on the subject of ion exchange separations.

Dr. Walton received an A. B. degree from Oxford University in 1937. He then came to the United States, spent a year at Princeton and two years at the Permutit Co., where his interest in ion exchange began. He began his academic career in 1940 at Northwestern University where he spent six years. Following his service with the British Red Cross he settled in Colorado and became a naturalized U. S. citizen in 1948. Currently he is chairman of the Colorado Section of the ACS. Dr. Walton's publications are in the field of electrochemistry, analytical chemistry, colloidal electrolytes and ion exchange. He has published two text books and has contributed chapters for two cooperative works on ion exchange.

Ion exchange can separate any pair of elements except inert gases and a great many organic compounds. Two principles are used: first, the retention of ions of one

charge sign on an exchanged resin while uncharged molecules and ions of opposite charge pass on; second, the successive displacement of ions of like charge from a resin bed. The first principle is the simpler and has many analytical applications, such as the separation of ferric ions and sulfate ions by changing their ionic partners.

The second principle is used to separate alkali metals, rare earths, and numerous acids and bases of biological interest. Separations are greatly facilitated by forming complex ions. For separating the metals the most useful complexing agent is the chloride ion. By raising the concentration of hydrochloric acid, one metal after another is made to form a negatively charged chloride complex, which can either be held on an anion exchange resin or driven out of a cation exchange resin. Sulfate complexes are less common, but the absorption of the uranium (VI) —sulfate complex on anion exchangers is used on a vast scale to recover uranium from low-grade ores. Complex ions are also used to separate organic compounds such as aldehydes, sugars, and diketones, through their bisulfite, borate and metal complexes respectively.

Dr. Edwin G. Koch attended the November meeting of the State Board of Education in Helena on November 18 and the meetings of the Executive Council of the University of Montana on November 17, 18, and 19.

What Is A Metallurgical Engineer?

By Charles W. Haynes

The need to be able to extract metals from minerals efficiently and economically, or to determine how to combine metals and process them so that they are best suited for a particular application, has led to the science of metallurgy and the metallurgical engineer. In general, an engineer may be thought of as a person whose job it is to adapt the materials and forces of nature for the good of mankind. The metallurgical engineer endeavors to improve on methods of taking metals from the minerals that nature supplies us with, and to find new and better ways to use the metals.

Such a broad field has come to be separated into narrower branches, namely, mineral dressing, which is the science of concentrating or separating the metal-containing minerals from worthless waste material, extractive or process metallurgy, which is the science of extracting the commercially pure metal from the minerals, and physical metallurgy, which is the science of the processing of the metal from the raw form to the finished product.

The metallurgical engineer normally takes a four-year college course to prepare himself for his profession. On graduation he may obtain a position in industry, with a branch of the government, in teaching, or he may establish a business of his own. He may be engaged in research and development where his task is to find new facts about metals or to develop new processes for extracting or treating them. He may be connected with the production processes of industry, or with the design of equipment used in those processes. He may go into quality control work, checking on the processes and the product to make sure they meet the necessary requirements. Or he may go into any of the other closely-related jobs in the metallurgical field.

What does a metallurgical engineer earn? His starting salary as a graduate with a B.S. degree would be similar to that for engineers of other branches, i.e. chemical, electrical, mechanical, etc., at perhaps \$400 to \$450 per month. The rate in increase after the first couple of years will depend to a large extent on the individual's ability. Many engineers after ten or fifteen years of experience go into supervision or management positions.

The Montana School of Mines Department of Metallurgy offers a course leading to the B.S. degree including basic studies in both process and physical metallurgy. The student can decide through the use of elective courses which he pre-

fers to emphasize. The department also offers the degree with the Mineral Dressing Option for those who wish to specialize in this field.

The continued advances which metallurgical engineers are making in the science is evidence of the activity and importance of the field. One has only to look closely at such a casually accepted commodity as the automobile to see the results of the metallurgical engineer's work: high quality cast iron for the engine block, cast aluminum alloy pistons for lightness, alloy steel forgings for the steering mechanism, the radiator made of copper for high heat conductivity, the stainless steel or chromium plated trim for corrosion resistance and beauty, and special alloy electrodes in the spark plugs, the highly formable sheet steel for the fenders and body, the silicon alloy magnet steel in the generator, and so on. The advances in all branches of science are calling more and more for the services of the metallurgical engineer.

Copper Guards Promote Campus Activities

The Copper Guard, a sophomore honorary service society, consists of ten members this year. Their services include familiarizing the freshmen with the campus on Orientation Day, ushering for various programs such as plays, games, and commencement exercises, selling tickets at games, planning the

M-Day picnic, and decorating the Library-museum hall for the M-Day dance.

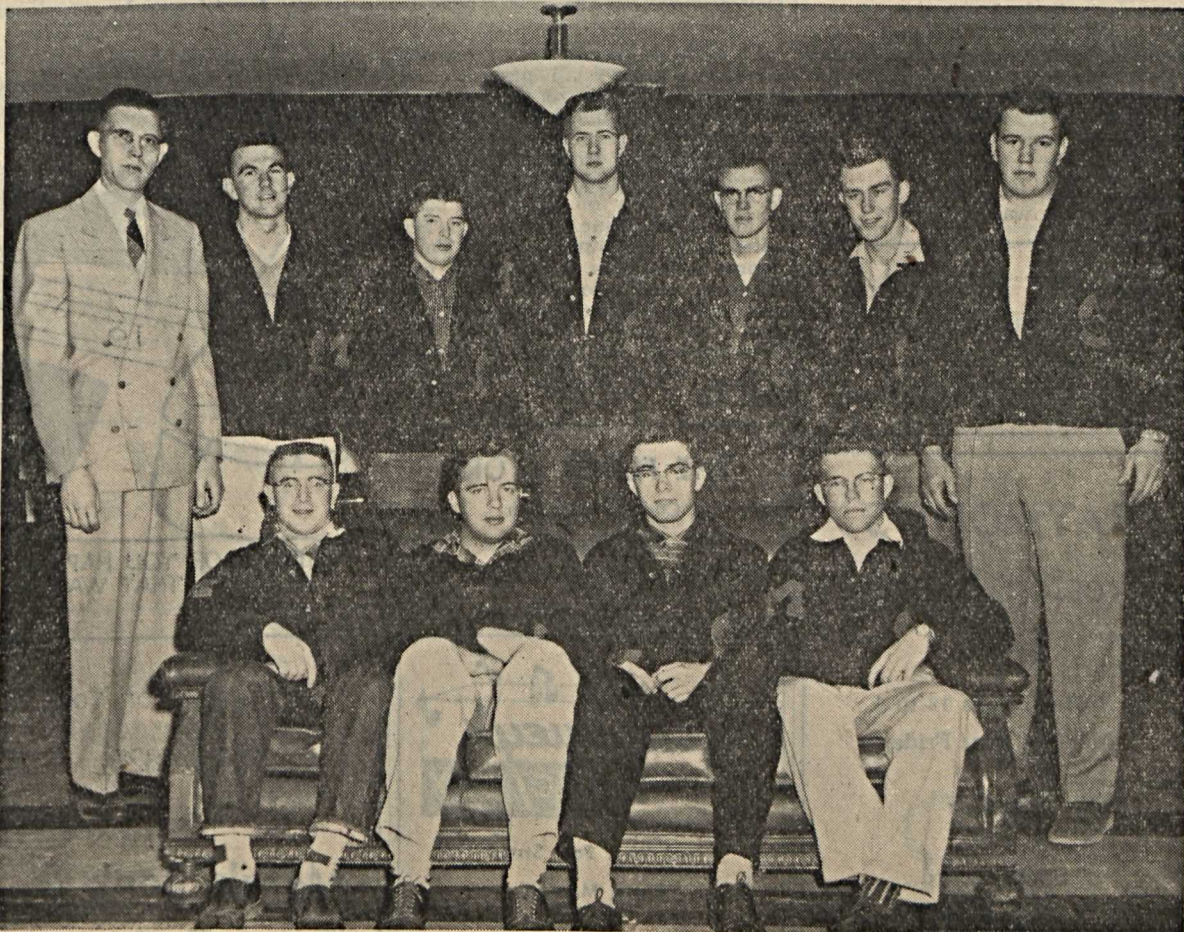
Each year the Copper Guards execute one major project. In previous years projects included putting up "Welcome to Butte" signs on the outskirts of the city, and refinishing the Marcus Daly statue.

Funds are obtained mainly from ASSM appropriations and the pop machine in the Coffee Shop. The organization uses this money for several dinners throughout the year, for partial payment for Copper Guard sweaters for members, and for financing their project if necessary.

Officers of the group are Dick Vincelette, duke; Don Rolfe, chancellor; George Grandy, scribe, and Don Roberts, recorder. Dick is from Billings, Montana. Don is from Wilbur, Washington. George and Don Roberts are from Butte and Whitehall, respectively. Professor John G. McCaslin is the faculty advisor.

To become a member of the Copper Guards a future sophomore must have his name nominated by the faculty for scholastic achievement and all-round school service. Then the present Copper Guards vote on members from a list of approximately forty names.

Members: Ed Erickson, Darrel Day, Bob Garey, George Grandy, Don McMillan, Don Roberts, Don Rolfe, Allen Rovig, Dick Vincelette, and Douglas Wadman.



Back Row (L to R): Professor McCaslin, Don McMillan, Ed Erickson, Bob Garey, Douglas Wadman, Darrel Day, Allen Rovig. Front Row (L to R): Don Rolfe, Don Roberts, Dick Vincelette, George Grandy.

INTRAMURALS

All students who are interested in intramural sports should check the bulletin board in the gym. A pool list has already been posted and the basketball list will be up soon. For any information, consult John Templin or Coach Simonich. Templin is the intramural manager.

COMING EVENTS

Student wives meeting will be held at 8:00 in the coed room on Jan. 8.

Anderson-Carlisle will hold its meeting at either 7:30 or 8:00 on Jan. 9.

Basketball:
Rocky Mountain—Jan. 11...Here
Rocky Mountain—Jan. 17...There
Eastern—Jan. 18There
Western—Jan. 18Here

The Amplifier

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EDITORIAL

I received a letter the other day from a person who writes under the sinister title of "The Prophet." Unfortunately, we could not print his letter since some of the material was of a controversial nature and we had reason to believe that a fictitious name was used.

The "Prophet" (true to form) cried that student enrollment was dropping off at M.S.M. and attributed this to increased activity fees, milk rationing in the dorm, dog burgers and boiled crow for meat, and the newly elected informers (Hall Council). He also noticed a lack of spirit and morale at the football games and came to the conclusion that lack of "spirits" equals lack of spirit.

He continued: "Another depressing effect of this school is the atrocious condition of the dormitory. The south wing is painted up like a carnival, the north wing looks like Hiroshima after the A-bomb, and the remainder of the dorm halls look like an octopus's nightmare."

"When all of the transfers have graduated from M.S.C. and M.S.U. and things get tough, they can look back at their horrible days at the now defunct School of Mines."

It is a pleasure to find that at least one prophet is still at large because the School of Mines (or any school) without a few pessimists would seem as barren as Silicosis Stadium without rocks. However, it is difficult to ascertain whether the "Prophet" is a modest person who wishes to avoid publicity for his literary masterpiece or a sniper who likes to throw stones from behind a fictitious name.

We would like to ask him this: Since you find many things wrong with the school, what have you done to improve it? An anonymous letter to the editor can accomplish nothing—a person may as well climb Big Butte and complain to the pigeons on the TV aerial.

Don't get me wrong; we welcome any contributions, controversial or otherwise, but SIGN YOUR NAME!

IE: "How did you puncture that tire?"
EE: "Ran over a milk bottle."
IE: "Didn't you see it?"
EE: "Naw, the kid had it under his coat."

INTERVIEWS SCHEDULED FOR DECEMBER

Messrs. Grundy, Scott, Spear, and Thomsen of Shell Oil Company will conduct interviews on the campus December 5. They will interview all senior and graduate engineers. Mr. Kaufman of Shell Oil will brief all interested students the evening prior to the interview, December 4 (time and place will be announced later).

Hughes Tool Company will be represented on the campus December 12 to interview petroleum engineers; also other senior or graduate engineers who may be interested. Junior students interested in summer work will also be interviewed (a limited number of jobs available). Messrs. Schneider and Redifer will conduct the interviews. Films will be shown to all interested students the evening of December 11 (time and place to be announced later).

"Carry your bag, sir?"
"No, let her walk."

LEGGAT Barber Shop

Where Mines' Students
Get Clipped
TOM and GOODIE

RAYMOND'S Fireside Lounge

Buffet Lunch 12 to 4
Monday thru Friday

Smorgasbord
Every Friday

Entertainment Nightly

News From The President's Office

Dr. Edwin G. Koch has been named a member of the Ways and Means Committee of the Butte Regional Science Fair, and he reports that plans are going ahead to make the Butte Science Fair this year one of the best ever held.

Mr. A. J. Kauffman, Jr., Chief of the Division of Mineral Industries, Region I of the U. S. Bureau of Mines office in Albany, Oregon, visited the campus on Wednesday, November 20. Items of mutual interest were discussed by members of the U. S. Bureau of Mines and the Montana Bureau of Mines and Geology.

Dr. Edwin G. Koch has accepted an invitation to be guest speaker at the annual luncheon meeting of the Northwest Scientific Association in Spokane on December 27. The title of his address will be "The Science Teacher of Tomorrow."

Word has been received from M. D. Hooven, President of the Engineers' Council for Professional Development, that accreditation has been extended for one year for Montana School of Mines curricula in geological engineering, metallurgical engineering, and mining engineering.

Work has been started on the repairs to Main Hall and the finishing of the physics section of the Petroleum Building.

Sigma Rho News Notes

With the approaching holiday season, the Sigma Rho Fraternity is currently making plans for the annual Christmas Party. This party is held shortly before Christmas vacation and it is one of the highlights of the Sigma Rho Fraternity's social season.

Many more Sigma Rho jackets will soon be seen around the campus, since many pledges have indicated their desire to obtain these jackets.

Intramural sports were discussed at the meeting of November 5. Archon Ross Wayment appointed Al Walkup to take charge of making up the rosters for the basketball teams and entering them in the intramural program.

Around The Campus

1. Sunday library hours successful.
2. Thanksgiving vacation here at last.
3. Sandy McGonigle receiving fan mail from Japan.
4. Dreams of a heating system in Main 106.
5. Pool ready for swimming classes.
6. Billie Todd helping to get a car started.
7. Teachers correcting those mid-semester exams.
8. Echoes in the tunnels—noisy co-eds.
9. Jim Connell looking forward to the Pullman trip.
10. Don't forget the Christmas Dance is coming soon.

O, Boy! Mid-semesters are over. Chances Are we all passed. The teachers say That'll Be the Day, but Just You Wait and See. Till everyone hears the results, there will be A Whole Lotta Shakin' Goin' On. But we always have That's the Way It Goes to rely on. Now it's back to the old routine. Wake Up My Little Susie. Tammy is on the Telephone and wants to know if you found a Jailhouse Rock on your geology trip. That Reminds Me, I heard you got a date with Mr. Fire-Eyes for the dance. Next time you go on a geology trip, Send For Me.

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TECHNICAL MEET HELD AT MINES

Mr. Richard M. Porter, Schlumberger Well-Surveying Corporation district engineer from Great Falls, presented a comprehensive discussion on "Electric Well Logging Instruments and Interpretations" at a special technical meeting of petroleum engineering and petroleum geology students at Montana School of Mines. This meeting was held at 12:30 P. M., on Thursday, November 21, in Room 108 of the Petroleum Building.

Mr. Porter was a guest of the Petroleum Engineering Department, having been invited by Professors D. H. Harnish and Gustav Stolz, Jr. The series of lectures lasted about six hours. As a basis for the discussion, the following outline was used:

- I. Introduction
 - A. History of well logging
 - B. Utilization of Oil-well surveying
- (A movie entitled "Electrical Well Logging" was presented at this point.)
- II. Types of instruments used in logging
 - A. Macrospaced devices
 - B. Microspaced devices
 - C. Radioactivity logs
 - D. Miscellaneous logging devices
- III. Theory of measurements of various devices
- IV. Use of measurements to calculate formation characteristics and fluid content
- V. Gamma ray-neutron logging
- VI. Methods of selecting correct logging methods

Mr. Porter elaborated extensively on each of the above items and showed numerous picture slides which helped to illustrate different points in the lecture. Following the lectures a question period was held.

As a cooperative program between industry and the school, The Montana School of Mines Petroleum Engineering Department has planned to present additional special programs of a similar nature, in which various other phases of the petroleum industry will be discussed.

Future programs will be announced in the Amplifier.

* * *
"What makes you think your wife is trying to get rid of you?"
"Every day this week she's wrapped my lunch in a road map."
* * *

An engineer is a man who is educated in the art of developing new and different ways of making the same mistake.
* * *

Dr. Adami Addresses The Anderson-Carlisle Society

Dr. Arthur E. Adami spoke on "The Licensing of Young Engineers in Montana" at a meeting of the Anderson-Carlisle Society held on November 26. Dr. Adami is vice-chairman of the Montana State Board of Registration for Professional Engineers and Land Surveyors. He explained that under the new state law, a person wishing to become a consulting engineer must obtain a license from the state.

Dr. Adami told the audience Wyoming was the first state to license engineers and Montana proved to be the last. In 1947, he said, the first steps were taken to license civil engineers and surveyors, and legislation was enacted last year to license all engineers "to ensure the safety of health, life and property" where engineering is concerned. Also, he took note of a "grandfather clause" by which experienced engineers having lived in Montana upwards of a year are licensed, provided they apply to the state board within one year of the 1957 legislation.

Young engineers, he said, are required to take a test concerning the basics of engineering, in mathematics, physics, chemistry, thermodynamics, hydraulics and mechanics.

Gordon Parker, president of the society, presided over the meeting.

Campus Personalities

Donald A. Hendricks, senior class vice-president, comes from Des Moines, Iowa. He attended Drake University in Iowa for one year. This is his fourth year at Montana School of Mines where he majors in mining engineering. He has received the Gardner-Denver Mining Scholarship for the last two years at MSM.

Don is a veteran, married, and has one child. His hobbies are hunting and fishing. Activities in school include the Anderson-Carlisle Society in which he is secretary-treasurer. For the past two years he has been treasurer of Sigma Rho fraternity, after being vice-archon in a previous year.

ON FIRST BEHOLDING THE PENTAGON

Great symbol of strength, a mighty mass,
Built of steel, supported by brass.

* * *
Kitty: "The man I marry must be a hero."
Katty: "Oh really, dear, you're not that bad."
* * *

LITTLE MAN ON CAMPUS BY BABIER



"DID ANY OF YOU HAPPEN TO FIND THAT BOTTLE OF ALCOHOL THAT WAS MISPLACED YESTERDAY?"

* * *
WOMEN'S TEARS: The first successful fluid drive.

* * *
"Waiter, there's a fly in my turtle soup."
"Yeh, we ran out of turtles."
* * *

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Montana Institution

Captain Carrier Explains Skiing Technique

Captain Carrier, head of the Army Recruiting in Butte and Butte Ski Club instructor, gave an informal talk at the Ski Club meeting Thursday, November 21, on skiing equipment. He also presented a movie on skiing technique. Fred Iselin, a former Sun Valley ski instructor, demonstrated the fundamentals in the movie.

In his talk the Captain started with skis, using his own European-made skis to show necessary qualities.

"Length is extremely important," he stressed.

Skis are of proper length if their tips come to the base of your thumb or middle of your palm when your arm is extended over your head (without any stretching)—heels flat on the floor.

When the group noted that his skis were too long, Mr. Carrier explained, "A long ski is like a long automobile—it gives you a better ride. A short ski has a tendency to go in a direction you do not wish."

He warned Ski Clubbers to test for a warp when buying skis. Lay the skis on a flat surface pressing your finger on each end (near the shovel and the heel). If your ski does not jiggle, it isn't warped.

Also, the person investing in ski equipment should test the balance of the camber by applying equal pressure with one hand on both skis. If one ski offers more resistance, then the balance is off.

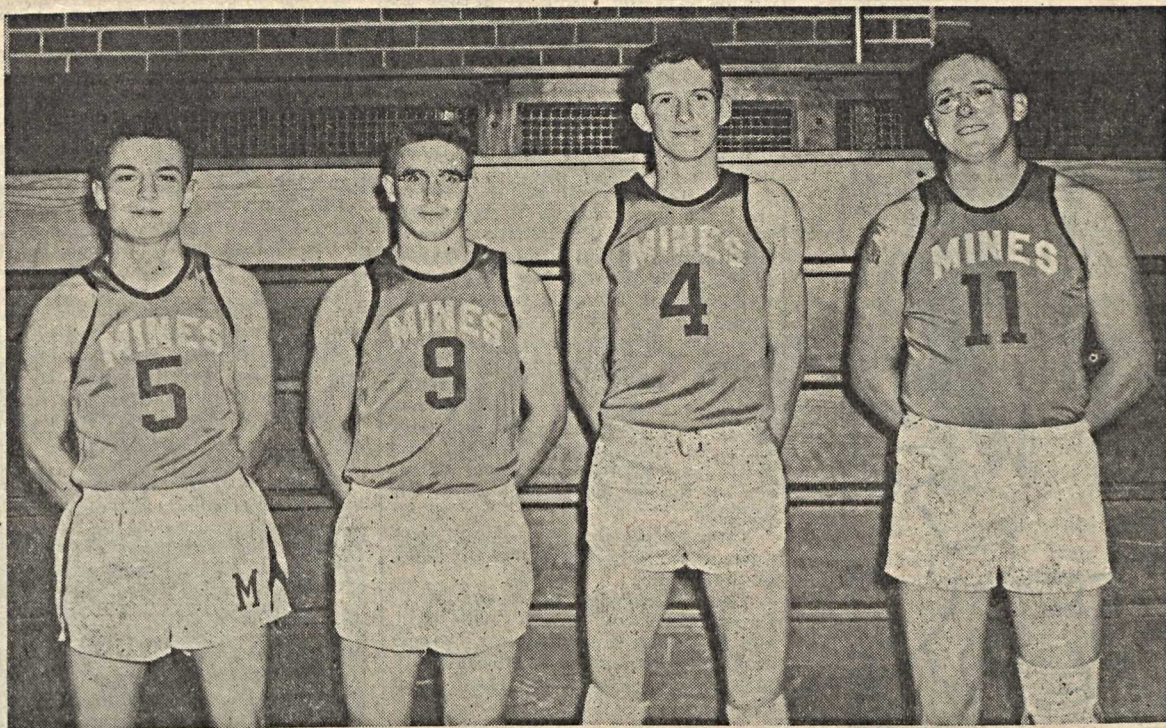
"You want a ski with a steel edge," advised the Captain. This is necessary for control and for protection of the ski itself. For the material of the ski he recommended any hardwood, especially hickory. Laminated skis are desirable because, in addition to being stronger, the camber is permanently sealed in, and they are more resistant to warping. Some tips he offered in purchasing skis were to buy skis of a long established name and to make sure the steel edge runs the full length of the heel and far enough on the shovel.

He added a tip for their care, "Place skis shoveldown after skiing rather than heel down in order to prevent rotting of the wood."

Next, Captain Carrier commented briefly on bindings. Although he has never used them, he assured the skiers, "Safety bindings are safe!" He also mentioned various other types of bindings among which the more widely used is the binding with steel toe irons, metal cable with heel spring and front throw lever. Tension applied by the lever holds the boot firmly in place.

He placed strong emphasis on the importance of a good ski boot. He named general characteristics of the boot as thick, square-cut sole, metal reinforcement in the arch, snow tire traction on the sole, no nails in the sole, grooved heel, good quality leather, perfect fit in heel, well-padded inner boot, strap placed well to the heel (if there is one). The boot should give firm contact between the foot and ski binding.

FIVE LETTERMEN REPORT FOR CAGE DRILLS



Left to Right: Gus Coolidge, Don Rolfe, Mike Freebourn, Don Mahagin. Not pictured: Ken Evans.

Five lettermen are among the twenty-eight prospects for basketball, Coach Simonich reported recently. Lettermen from last and former years include Ken Evans, senior; Gus Coolidge, a junior, and sophomores Mike Freebourn, Don Rolfe, and Don Mahagin.

The Mines club will lack height but hope to make it up in experience. Glen Tonkin and Bill Cronin are the tallest players at 6-3, with Doug Smart at 6-2 and Mike Freebourn at 6-1½.

The Orediggers had a winless season last year in the Montana College Conference and, as Ed Simonich said, "We can't go any way but up —." The first game will be played on December 12 with Western Montana at Dillon, with a return game on December 14 at the Mines gym. The Dillon squad has height and experience and should be a top contender for conference honors. The regular conference season begins in January and the December games will not count in conference standings.

EIGHTEEN MINERS OUT FOR HOCKEY

Eighteen players turned out for hockey practice the first week. The team roster to date includes Ross Wayment, Butte; Lawrence Nelson, Butte; George Blumfield, Great Falls; Jack Hunter, Calgary, Alberta; Don Ogrin, Great Falls; Dick Banghart, Greenwich, Connecticut; Leonard Darsow, Libby; Don MacKnight, Great Falls; Stanley Mikuse, Coleman, Alberta; Robert Donaldson, Newington, Connecticut; Ronald Nordwick, Wolf Point; Kenneth Erickson, Grand Rapids, Minnesota; Allen Sawitke, Willoughby, Ohio; Michael Maddocks, Calgary, Alberta; Richard Herndon, Spokane, Washington; Allan McIvor, Divide; Dan Trbovich, Anaconda, and Lee Nordahl, Chouteau.

Coach Simonich has been trying to schedule four to six games with Fairchild Air Force Base, the Spokane Flyers Junior Team, and the Salt Lake City team. In addition, the team will be entered in the Butte City League.

Team practices are held each Monday, Wednesday, Friday, Saturday and Sunday, at the Civic Center.

If you have built castles in the air, your work need not be lost; that is where they should be. Now put the foundations under them. —Thoreau

It is probably the most expensive ski item, therefore proper attention should be given to its selection.

Other important items he brought to the Ski Club's attention were a complete warm set of underwear—"it doesn't matter how you get them, if grandma knits them or whatever have you," — one-piece goggles with removable lenses, good mittens (incidentally, his were horsehide) with a couple of pairs of woolen mittens worn inside, two pairs of socks—one light, one heavy, and a good flexible pole. Poles of proper length come about half way between elbow and armpit when tips are on the floor and elbows are at the side.

Captain Carrier brought a new method of ski instruction to the attention of the group. It is called the Wedlen Method and is based on the side slip and traverse. Present methods in use are the Alberg Method and the Parallel Technique.

Before the talk and the movie, Gary Alexander, Ski Club president, conducted a business meeting. Refreshments were served. Milt Barnett was appointed chairman to find a design for the Mines ski patch. His committee members are Lilburn Lueck, Dick Osterman, and Dick Willey. They will present a report at the meeting of December 5.

The club plans to investigate the skis in the dormitory attic.

Members are urged to give their dues to Treasurer Jim Connell before the next meeting.

NOTE OF THANKS

With the end of the football season the Associated Students would like to extend special thanks to Joe Kilminster and Dan McCarthy. Kilminster helped with the line and McCarthy acted as backfield coach for the 1957 grid season. Both served voluntarily.

Joe Kilminster, who attended the School of Mines and later transferred to the Montana State University, is, at present, employed at the Junior High School as a mathematics teacher and coach. He will also assist Coach Simonich with the basketball team.

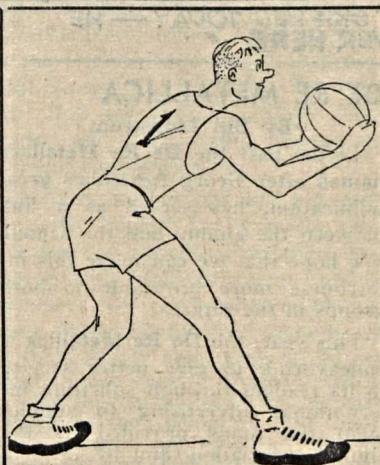
Dan McCarthy, who graduated from Portland University, works in the time office for the Anaconda Company. He loves the game of football and has also helped Simonich at Boys Central for several years.

At a recent frat party, a prominent guest stepped out onto the patio for a bit of fresh air and discovered to his amazement and horror his girl in the arms of another man. "What does this mean?" screamed the enraged engineer. "Who is this man?" There was a moment's embarrassing pause. Then the gal in the case spoke up, "I think my boy friend is absolutely within his rights," she said calmly. "What IS your name?"

Horse sense is what keeps horses from placing bets on people.

The course of true love never runs up a big light bill.

Human eyesight reaches its peak at 10.



MINES

VS.

WESTERN

Saturday, Dec. 14

8:00 P. M.

About 500 volcanoes are classified as active.

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Meat Market, Inc.
Wholesale and Retail Meats
101 East Park Street
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Engineering Co.
CONSULTING, MINING,
&
GEOLOGICAL ENGINEERS
Butte, Montana

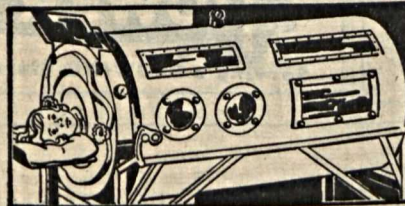
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The total estimated needs of the 1958 March of Dimes—\$44,900,000—includes costs of patient aid, research, professional education, vaccination promotion and support of the Respiratory and Rehabilitation Centers of the National Foundation for Infantile Paralysis. Help reach this indispensable total by giving to the 1958 March of Dimes.

It is not worth the while to go round the world to count the cats in Zanzibar.

—Thoreau

Now that the tourist season is over, it's time for the county to close the detours and open the roads.

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Compliments of

ROCKY MOUNTAIN

CAFE

LITTLE MAN ON CAMPUS



"OH-OH-GUESS TO MANY OF US 'SKIPPED' TODAY - HE FOLLOWED US OVER HERE."

WIVES CLUB TO HOLD TURKEY RAFFLE

A raffle for a Christmas turkey was decided upon at a Student Wives meeting on Wednesday evening, November 13. The drawing will be held December 11; ticket holders need not be present to win. Tickets will be twenty-five cents each, three for fifty cents, and may be purchased from any student wife.

Mrs. Robert Wylie, president, conducted the business session, and Mrs. Edwin G. Koch, introduced the other sponsors, Mrs. Walter T. Scott, Mrs. James H. Albertson, Mrs. John G. McCaslin and Mrs. Ralph I. Smith.

Mrs. Scott introduced the guest speaker, Miss Dorothy Hannifin, who gave an entertaining talk on "The History of Silver" and showed a lovely display of fine silverware.

Refreshments were served by the hostesses, Mrs. Dick Davis, Mrs. Andrew Mular, and Mrs. Edward Erickson, from a table decorated in a Thanksgiving theme and centered with a horn of plenty.

At the meeting were the sponsors; Mrs. D. Charles McAuliffe, a guest; and Mrs. Melvin R. Bennett, Mrs. Patrick Butler, Mrs. Robert H. Darlington, Mrs. Johannes P. Dreyer, Mrs. Walter Enderlin, Mrs. Gary Erb, Mrs. Chester Faunce, Mrs. Donald Hendricks, Mrs. Zane Kelly.

Mrs. Gene Lanier, Mrs. Donald E. Macknight, Mrs. Frank Martinich, Mrs. George Maxwell, Mrs. Robert Mock, Mrs. Damon Paulley, Mrs. Arlan Rathke, Mrs. Frank Ross, Mrs. Donald Schweitzer, Mrs. Harold B. Treweek, Mrs. Gene Trimble, Mrs. Ross Wayment, Mrs. Wylie and the hostesses.

Mangled Pedestrian: "What's the matter—are you blind?" Motorist: "Blind?—I hit you, didn't I?"

Thank you, Phantom, for all those cards and letters.—ED.

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DE RE METALLICA

By Bill Lindstrom

In the past the *De Re Metallica*, named after Georg Agricola's great publication, has served as a link between the alumni and the school. We hope that we can make this intercourse more profitable to both groups in the future.

This year, the *De Re Metallica* is endeavoring to give better service to its readers through soliciting international advertising to supplement the funds provided by the alumni association, and by using a staff made up of students enrolled in the new English 3 journalism course. The school gives 2 credits for work done on the school publications.

The staff of the *De Re Metallica* includes Bill Lindstrom, editor; Miss Billie Todd, assistant editor; Miss Judy McVey, campus editor, and J. Freebourn, business manager.

Poetry Section

ORIGINAL POEM

By B. W. Brown, Esquire

Wandering eyes could lead to lies
And lies could lead to losses.
Those who gaze on other's work
Had better be shift bosses —
Not ENGINEERS.

(Poem inspired by action in a recent examination given by myself in Geology 1.)

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PRACTICE DEBATE TOURNAMENT AT MSM

On November 19, the School of Mines was the scene of a practice debate tournament. The participants in this tournament were debate teams from MSC in Bozeman, Western in Dillon, and Montana School of Mines.

The tournament was held in two rounds, with three sets of teams debating simultaneously in different rooms during each round. During the first round MSC, Western and MSM on the affirmative side of the question debated against MSM, MSC, and Western on the negative side of the question. In this round all the schools on the negative side of the question got the decision. In the second round MSM, Western, and MSC on the affirmative side debated against Western, MSC, and MSM on the negative side. In this round Western and MSC on the affirmative and Western on the negative were given the decision.

After all the debate sessions were over, a critique was given by each of the judges.

The judges were Professor W. C. Laity, Professor J. H. Albertson, and Professor Emeritus W. T. Scott of Butte; Professor L. Lawrence of MSC and Professor Marler of Western.

Country Girl: "My paw's the best rifle shot in the county."

City Lad: "What does that make me?"

Country Girl: "My fiance."

"Your husband looks like a brilliant man. I suppose he knows practically everything."

"Don't be silly. He doesn't suspect a thing."

Boss: "Who told you that you could neglect your office duties just because I give you a little kiss now and then?"

Secretary: "My attorney."

Perhaps the most observant person was the historian who noticed that Lady Godiva had a horse with her.

I am often asked why I never married. It is an old story, really. When I was young, I was standing in a crowded subway and unfortunately I trampled with my big shoes on a lady's foot. She yelled furiously and then, suddenly turning around, quickly apologized: "Sorry, I thought you were my husband."

At that moment I decided to remain a bachelor.

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WHAT IS "IT"?

This is a warning! There are only 16 shopping days left until Christmas. Everybody will be bumbling gaily off to Yuletide parties. Those left can probably be found in a lonely corner of the U&I with their own special brand of Christmas cheer. Most likely, many will be obsessed with the idea that some relief from the daily grind of lecture-lab-learn is in sight—to be precise, December 21.

But don't let all this throw anybody. The warning is to leave space at the end of that shopping list to jot down a reminder about It; include It as the party of the season; leave that stool and that cheer, man, in time to make It, and give It more than a little consideration.

It will be December 15. It will be formal. Corsages will not be allowed for It. Besides couples, programs and punch will be at It. The Coeds are sponsoring It.

What's with the It business? No mystery, President Maribeth Sullivan doesn't choose to disclose the theme of the Christmas formal.

Statement Miss Sullivan?
"It's a surprise!" she says.

THANKS TO INDUSTRY

The Petroleum Department wishes to take this opportunity to thank the petroleum industry for its continued interest shown in the students of the Montana School of Mines. Many companies have already been on the campus this year to interview and offer employment to graduating seniors. This concern of the petroleum companies indicates that Mines graduates are still in great demand.

Only one man in a thousand is a leader of men. The other 999 are followers of women.

Mixed company is what you're in when you think of a good story that you can't tell there.

Three hard-of-hearing Englishmen were traveling together in a railway coach. As the train pulled into the station one of them said, "Ah, this is Wembly."
"No, it isn't," said the second, "it's Thursday."
"So am I," replied the third. "Let's go to the bar and have a drink."

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MINERAL CLUB

The Mineral Club met Wednesday, November 13, to discuss projects for the winter. Plans were made to assemble a collection of mineral specimens which would be useful to future students of mineralogy. The collection will be installed in the residence hall.

Very fine epidote and calcite crystals were collected by club members on a field trip November 17, in the Nineteen Mile country. An interesting contact zone was also observed. The trip was interesting and profitable for everyone who went.

The club plans to make other field trips whenever the weather will permit.

"Who introduced you and your wife?"

"We just met. I don't blame anybody."

"We had to shoot our dog yesterday."

"Was he mad?"

"Well, he wasn't exactly pleased about it."

Wife: "Darling, tell me, how did you ever get Junior to eat olives?"

Ch. E.: "Simple, I started him with Martinis."

Mrs. White was taken suddenly ill in the night, and the new doctor was called because he was the quickest available. After a quick look at the patient, the doctor stepped outside the sick room to ask Mr. White for a corkscrew. Given the tool, he disappeared, but several minutes later was back, demanding a pair of pliers. Again, he disappeared into the room of the moaning patient, only to call out again, "A chisel and a mallet, quickly." White could not stand it any longer. "What ails her, Doc, for gosh sakes?" "Don't know yet," was the reply, "can't seem to get my instrument bag open."

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MAGMA

By Bill Brown

A suggestion for improving the appearance of this year's Magma has been brought before the staff. The suggestion is as follows: to improve the quality of individual pictures, retouched photos can be supplied by a professional photographer for \$2.50 a print, if a majority of the student body so desires. This price includes only a picture for the annual; personal copies will be at extra cost. Proofs will be furnished and the student will choose the picture he wishes to be retouched and printed.

The Magma staff decided that the best way to get the opinion of the student body was to conduct a poll via the Amplifier. Below you will find a ballot on which to cast your vote. Please fill in the blanks and deposit in the suggestion box in Main Hall. All ballots should be cast by Monday, December 9. If you desire to have a retouched studio print vote yes, but if you do not wish to pay the \$2.50 for a picture vote no.

If the decision is negative, photographs for the Magma will be taken by a school photographer at a cost per student of approximately fifty cents. These pictures will not be retouched. Students wishing to compare the appearance of retouched studio prints and unretouched photographs will find examples of yearbooks containing each in Room 5, Main Hall.

Name _____

Class _____

I agree to pay \$2.50 for a studio photograph to be placed in the 1958 Magma.

☐ Yes

☐ No